

WHAT IS CLAIMED IS:

1. A method for generating a software development repository to reflect extensions in an application framework comprising:
 - defining a repository framework;
 - receiving application framework metadata, the application framework metadata specified utilizing constructs from an application framework meta-level (M2);
 - transforming the application framework metadata into an intermediate representation as a function of the application framework meta-level (M2) and a meta-level for the application framework meta-level (M3);
 - generating the software development repository utilizing the intermediate representation.
2. The method according to claim 1, wherein the intermediate representation is XML (“Extensible Markup Language”).
3. The method according to claim 1, wherein the software development repository includes a database schema and an executable component, the executable component providing at least one database service.
4. The method according to claim 3, wherein the at least one service includes object oriented access, versioning, persistence and change management.
5. The method according to claim 2, wherein the step of transforming the application framework into an intermediate representation is achieved using XSL (“Extensible Style Language”).
6. The method according to claim 1, wherein the step of generating the software development repository further includes the steps of generating a

source file for generating an executable component and a script file for generating a database schema.

7. A method for generating a software development repository to reflect changes in an application framework comprising:

providing a first meta-level (M2) for representing the application framework metadata;

providing a second meta-level (M3) for representing the M2 meta-level;

receiving application framework metadata, the application framework metadata specified utilizing constructs from the application framework meta-level (M2);

transforming the application framework metadata into an intermediate representation as a function of the application framework meta-level (M2) and the second meta-level level (M3);

generating the software development repository as a function of the intermediate representation.

8. The method according to claim 7, wherein the intermediate representation is XML.

9. The method according to claim 7, wherein the software development repository includes a database and an executable component, the executable component providing at least one service with respect to the database.

10. The method according to claim 9, wherein the at least one service includes versioning, change management, persistence and change management.

11. An object repository generator comprising:

an interface for receiving a meta-model specification;

a metadata engine for performing at least one operation on the meta-model specification including at least generating an intermediate representation of the meta-model specification as a function of a first meta-level and a second meta-level;

a generator component for generating the object repository as a function of the intermediate representation.

12. The object repository generator of claim 11, wherein the meta-model specification utilizes at least a subset of UML (“Unified Modeling Language”).

13. The object repository generator of claim 11, wherein the generator component generates a source file and an database schema script, the source file utilized to generate an executable component and the database schema script utilized to generate a database schema.

14. An object repository generator comprising:

an interface for receiving a meta-model specification;

a metadata engine for performing at least one operation on the meta-model specification including at least generating an intermediate representation of the meta-model specification as a function of a first meta-level and a second meta-level, the meta-data engine including a database for storing a plurality of versions of an object repository;

a generator component for generating the object repository as a function of the intermediate representation.

15. The object repository according to claim 14, wherein the database storing versions of an object repository is utilized to provide migration of data stored in the object repository.

16. A method for providing generic migration of previously stored data in a software development repository to reflect changes in an application framework comprising:

providing a first meta-level (M2) for representing the application framework metadata;

providing a second meta-level (M3) for representing the M2 meta-level;
receiving application framework meta-data, the application framework metadata specified utilizing constructs from the application framework meta-level (M2);

transforming the application framework meta-data into an intermediate representation as a function of the application framework meta-level (M2) and the second meta-level level (M3);

generating the software development repository as a function of the intermediate representation;

transforming the previously stored data into a format compatible with the generated software development repository utilizing the intermediate representation.